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1. Document ID: US 5985043 A

L2: Entry 1 of 3

File: USPT

Nov 16, 1999

US-PAT-NO: 5985043

DOCUMENT-IDENTIFIER: US 5985043 A

TITLE: Polymerizable fluxing agents and fluxing adhesive compositions therefrom

Full	Title	Citation	Front	Review	Classification	Date	Reference	Claims	KMC	Draw Desc	Image
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2. Document ID: US 4581461 A

L2: Entry 2 of 3

File: USPT

Apr 8, 1986

US-PAT-NO: 4581461

DOCUMENT-IDENTIFIER: US 4581461 A

TITLE: Maleated siloxane derivatives

Full	Title	Citation	Front	Review	Classification	Date	Reference	Claims	KMC	Draw Desc	Image
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3. Document ID: EP 969065 A2

L2: Entry 3 of 3

File: DWPI

Jan 5, 2000

DERWENT-ACC-NO: 2000-089301

DERWENT-WEEK: 200008

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TITLE: Curable adhesive composition for bonding electronic component to a substrate

Full	Title	Citation	Front	Review	Classification	Date	Reference	Claims	KMC	Draw Desc	Clip Img	Image
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L2: Entry 2 of 3

File: USPT

Apr 8, 1986

DOCUMENT-IDENTIFIER: US 4581461 A

TITLE: Maleated siloxane derivatives

BSPR:

Curable adhesive and sealant compositions employing maleimide derivatives are well known in the art. For example, U.S. Pat. No. ~~3,988,299~~ (issued Oct. 26, 1976 to B. M. Malofsky) describes the use of small amounts of maleimide derivatives with unsaturated diacrylates in both heat curable and anaerobic curable adhesive compositions. U.S. Pat. No. ~~4,370,467~~ (issued Jan. 25, 1983 to M. Gaku et al.) describes the use of maleimides with polyfunctional aromatic cyanate esters in the preparation of curable resin compositions.

09/091, 492

0091492

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L6: Entry 1 of 10

File: USPT

Nov 16, 1999

DOCUMENT-IDENTIFIER: US 5985043 A

TITLE: Polymerizable fluxing agents and fluxing adhesive compositions therefrom

DEPR:

4. Resins. The thermally curable adhesive composition does not require resins; further, compositions that do not include resins tend to have longer pot lives and lower viscosities during solder reflow. However, as an option, a resin can be employed and it functions to increase the adhesion of the cured composition to the substrate and to increase the cohesive strength and glass transition temperature of the cured composition. The resin may be any suitable resin that is compatible (i.e., blendable) with the fluxing agent. By blendable is meant that the resins do not have to be chemically bonded to the fluxing agent and/or diluent, however, preferred resins can crosslink with the carboxylic acid groups in the fluxing agent or by other reactive moieties, such as optional -OH groups, in the diluent. Resins which meet these requirements include, but are not limited to, epoxies, phenolics, novalacs (both phenolic and cresolic), polyurethanes, polyimides, bismaleimides, maleimides, cyanate esters, polyvinyl alcohols, polyesters, and polyureas. Preferred resins 1,4-cyclohexanedimethanol diglycidyl ether, 3,4-epoxycyclohexylmethyl 3,4-epoxycyclohexanecarboxylate, N,N-diglycidyl-4-glycidyl-oxyanilline, bisphenol A based epoxy resins, and mixtures thereof. These are commercially available.

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L6: Entry 3 of 10

File: USPT

Dec 12, 1989

DOCUMENT-IDENTIFIER: US 4886842 A

TITLE: Epoxy-amine compositions employing unsaturated imides

BSPR:

While the use of maleimide or nadimide functional compounds as additives to improve hot strength various curable adhesive or related systems has been previously described, applicants are unaware of any prior art suggesting that such additives can result in improved adhesion or thermal cycle resistance (i.e. resistance to loss of adhesion as a result of repeated large temperature changes.)

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L6: Entry 3 of 10

File: USPT

Dec 12, 1989

US-PAT-NO: 4886842

DOCUMENT-IDENTIFIER: US 4886842 A

TITLE: Epoxy-amine compositions employing unsaturated imides

DATE-ISSUED: December 12, 1989

INVENTOR-INFORMATION:

NAME	CITY	STATE	ZIP CODE	COUNTRY
Drain; Kieran F.	Rochester Hills	MI	N/A	N/A
Kadziela; Kris	East Hartford	CT	N/A	N/A

ASSIGNEE INFORMATION:

NAME	CITY	STATE	ZIP CODE	COUNTRY	TYPE CODE
Loctite Corporation	Newington	CT	N/A	N/A	02

APPL-NO: 7/ 295068

DATE FILED: January 6, 1989

PARENT-CASE:

This is a divisional of co-pending application Ser. No. 07/164,075 filed on Mar. 4, 1988 now U.S. Pat. No. 4,837,295.

INT-CL: [4] C08G 59/60

US-CL-ISSUED: 522/103; 522/107, 522/167

US-CL-CURRENT: 522/103; 522/107, 522/167

FIELD-OF-SEARCH: 522/107, 522/167, 522/103

REF-CITED:

U.S. PATENT DOCUMENTS

Search Selected

Search ALL

PAT-NO	ISSUE-DATE	PATENTEE-NAME	US-CL
<input type="checkbox"/> 2895950	July 1959	Kriebble	260/89.5
<input type="checkbox"/> 3218305	November 1965	Kriebble	260/89.5
<input type="checkbox"/> 3425988	February 1969	Gorman et al.	260/47
<input type="checkbox"/> 3763087	October 1973	Holub et al.	260/41
<input type="checkbox"/> 3985928	October 1976	Watanabe et al.	428/273
<input type="checkbox"/> 3988299	October 1976	Malofsky	260/27
<input type="checkbox"/> 4025407	May 1977	Chang et al.	204/159.14
<input type="checkbox"/> 4051195	September 1977	McWhorter	260/837
<input type="checkbox"/> 4092442	May 1978	Agnihotri et al.	427/41
<input type="checkbox"/> 4092443	May 1978	Green	522/167 X
<input type="checkbox"/> 4110188	August 1978	Darms et al.	204/159
<input type="checkbox"/> 4365068	December 1982	Darms et al.	548/435
<input type="checkbox"/> 4416975	November 1983	Green et al.	522/167 X
<input type="checkbox"/> 4485229	November 1984	Waddill et al.	528/111
<input type="checkbox"/> 4490515	December 1984	Mariotti et al.	526/298

ART-UNIT: 153

PRIMARY-EXAMINER: Nielsen; Earl

ATTY-AGENT-FIRM: Vidas & Arrett

ABSTRACT:

The present invention comprises a radiation immobilizable epoxy formulation which displays improved initial and thermal cycle strengths when bonding different materials such as terephthalate polyesters and aluminum.

The composition comprises:

- (1) a compound or mixture of compounds having a plurality of epoxy groups per molecule;
- (2) a polyoxyalkylene amine curative for the epoxy;
- (3) an imide compound selected from those having the formulas; and ##STR1## (4) a photocurable ethylenically unsaturated compound and photoinitiator, said ethylenically unsaturated compound and photoinitiator present in amounts which together are effective to cause the composition to become immobilized when irradiated with actinic radiation.

10 Claims, 0 Drawing figures

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(4 SAME MALEIMIDE).USPT,JPAB,EPAB,DWPI.	10

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14 same maleimide

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USPT,JPAB,EPAB,DWPI	14 same maleimide	10	<u>L6</u>
USPT,JPAB,EPAB,DWPI	14 same (maleimide with initiator)	2	<u>L5</u>
USPT,JPAB,EPAB,DWPI	curable adhesive	3770	<u>L4</u>
USPT,JPAB,EPAB,DWPI	11 and (maleimide with initiator)	1	<u>L3</u>
USPT,JPAB,EPAB,DWPI	11 same maleimide	3	<u>L2</u>
USPT,JPAB,EPAB,DWPI	curable adhesive composition	585	<u>L1</u>

Term	Documents
MALEIMIDE.DWPI,EPAB,JPAB,USPT.	15557
MALEIMIDES.DWPI,EPAB,JPAB,USPT.	3029
(1 SAME MALEIMIDE).USPT,JPAB,EPAB,DWPI.	3

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L6: Entry 1 of 10

File: USPT

Nov 16, 1999

US-PAT-NO: 5985043

DOCUMENT-IDENTIFIER: US 5985043 A

TITLE: Polymerizable fluxing agents and fluxing adhesive compositions therefrom

Full	Title	Citation	Front	Review	Classification	Date	Reference	Claims	KWIC	Draw Desc	Image
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☐ 2. Document ID: US 4923997 A

L6: Entry 2 of 10

File: USPT

May 8, 1990

US-PAT-NO: 4923997

DOCUMENT-IDENTIFIER: US 4923997 A

TITLE: Novel siloxane maleimides

Full	Title	Citation	Front	Review	Classification	Date	Reference	Claims	KWIC	Draw Desc	Image
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☒ 3. Document ID: US 4886842 A

L6: Entry 3 of 10

File: USPT

Dec 12, 1989

US-PAT-NO: 4886842

DOCUMENT-IDENTIFIER: US 4886842 A

TITLE: Epoxy-amine compositions employing unsaturated imides

Full	Title	Citation	Front	Review	Classification	Date	Reference	Claims	KWIC	Draw Desc	Image
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☐ 4. Document ID: US 4837295 A

L6: Entry 4 of 10

File: USPT

Jun 6, 1989

US-PAT-NO: 4837295

DOCUMENT-IDENTIFIER: US 4837295 A

TITLE: Epoxy-amine compositions employing unsaturated imides

Full	Title	Citation	Front	Review	Classification	Date	Reference	Claims	KWIC	Draw Desc	Image
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☐ 5. Document ID: US 4806608 A

L6: Entry 5 of 10

File: USPT

Feb 21, 1989

US-PAT-NO: 4806608

DOCUMENT-IDENTIFIER: US 4806608 A

TITLE: Curable siloxane maleimide composition

Full	Title	Citation	Front	Review	Classification	Date	Reference	Claims	KWIC	Draw Desc	Image
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☐ 6. Document ID: US 4581461 A

L6: Entry 6 of 10

File: USPT

Apr 8, 1986

US-PAT-NO: 4581461

DOCUMENT-IDENTIFIER: US 4581461 A

TITLE: Maleated siloxane derivatives

Full	Title	Citation	Front	Review	Classification	Date	Reference	Claims	KWIC	Draw Desc	Image
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☐ 7. Document ID: JP 2000044888 A

L6: Entry 7 of 10

File: JPAB

Feb 15, 2000

PUB-NO: JP02000044888A

DOCUMENT-IDENTIFIER: JP 2000044888 A

TITLE: DIE-BONDING ADHESIVE

Full	Title	Citation	Front	Review	Classification	Date	Reference	Claims	KWIC	Draw Desc	Image
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☐ 8. Document ID: JP 11172206 A

L6: Entry 8 of 10

File: JPAB

Jun 29, 1999

PUB-NO: JP411172206A

DOCUMENT-IDENTIFIER: JP 11172206 A

TITLE: HEAT CURABLE ADHESIVE TAPE

Full	Title	Citation	Front	Review	Classification	Date	Reference	Claims	KWIC	Draw Desc	Image
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☐ 9. Document ID: EP 969065 A2

L6: Entry 9 of 10

File: DWPI

Jan 5, 2000

DERWENT-ACC-NO: 2000-089301

DERWENT-WEEK: 200008

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TITLE: Curable adhesive composition for bonding electronic component to a substrate

Full	Title	Citation	Front	Review	Classification	Date	Reference	Claims	KWIC	Draw Desc	Clip Img	Image
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☐ 10. Document ID: JP 10036789 A

L6: Entry 10 of 10

File: DWPI

Feb 10, 1998

DERWENT-ACC-NO: 1998-175227

DERWENT-WEEK: 199816

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TITLE: Heat curable adhesive tape - comprises resin composition containing soluble pre-polymer obtained by reacting bis- or higher maleimide and di- or higher amino compound, crosslinking agent and synthetic rubber

Full	Title	Citation	Front	Review	Classification	Date	Reference	Claims	KWIC	Draw Desc	Image
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Term	Documents
MALEIMIDE.DWPI,EPAB,JPAB,USPT.	15557
MALEIMIDES.DWPI,EPAB,JPAB,USPT.	3029
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